

CLAIMS

Sub B1 → 1. A liquid-crystal display device having a pair of substrates which are opposite to each other through a liquid crystal, and a semiconductor element which is directly joined to at least one of said substrates,

characterized in that a portion other than a surface, which is joined to one of said substrates, of the surfaces of said semiconductor element is covered with a light-shielding member portion.

2. A liquid-crystal display device according to claim 1, characterized in that a second light-shielding member for shielding light being toward said semiconductor element is arranged on a surface, opposite to the surface, to which said semiconductor element is joined, of the surfaces of one of said substrates.

Sub B2 → 3. A liquid-crystal display device according to claim 2, characterized in that a plurality of pixels having no active element are arranged between said pair of substrates.

Sub A1 → 4. A liquid-crystal display device according to any one of claims 1 to 3,

characterized in that said semiconductor element is joined to one of said substrates such that an active surface

of said semiconductor element faces said substrate.

5. A liquid-crystal display device according any one of claims 1 to 4,

characterized in that a polarizing plate is arranged on a surface of the other of said substrates, and said light-shielding member is constituted by a portion located outside an effective display region of said polarizing plate.

6. A liquid-crystal display device according to any one of claims 1 to 4,

characterized in that said light-shielding member is a molding resin which covers the surface of said semiconductor element joined to said substrate.

7. A liquid-crystal display device according to any one of claims 2 to 4,

characterized in that said light-shielding member and said second light-shielding member are constituted such that a light-shielding tape having light-shielding properties and flexibility is adhered to one of said substrates to be bent around said substrate.

8. A liquid-crystal display device according to any one of claims 2 to 4,

characterized in that a polarizing plate is arranged on

a surface of one of said substrates, and said second light-shielding member is constituted by a portion located outside an effective display region of said polarizing plate.

9. A liquid-crystal display device according to one of claims 2 to 6,

characterized in that said second light-shielding member is constituted such that a planar sheet member having light-shielding properties is adhered to a surface of one of said substrates.

10. An electronic device in which a liquid-crystal display device having a pair of substrates which are opposite to each other through a liquid crystal and a semiconductor element which is directly joined to at least one of said substrates and a main body having a main substrate for sending an external input signal to said semiconductor element are connected to each other by a connection circuit substrate,

characterized in that a portion other than a surface, which is joined to one of said substrates, of the surfaces of said semiconductor element is covered with a light-shielding member.

11. An electronic device according to claim 10,

characterized in that a second light-shielding member for shielding light being toward said semiconductor element is

arranged on a surface, opposite to the surface, to which said semiconductor element is joined, of the surfaces of one of said substrates to extend to an outside position of one of said substrates, and

the extended portion of said second light-shielding member is arranged to overlap the connection circuit.

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